

Generic Risk Assessment

Title/ Description		Heavy (Adverse) Weather Encounter			FS-01-IMS13-001 - Bridge Procedures		GRA. No	FS-01-IMS03-001-B-004	
Reference Source		ICS Bridge procedures guide		IMS Procedure		Line of Fire			
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.			
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity	Likelihood of Occurrence	Risk Rating	
Vessel preparation for adverse weather navigation	H – Lack of awareness H – Inexperienced crew H- Inadequate vessel preparation H – Inadequate weather forecast H – Human factors H – Work organization and social factors E – Equipment / vessel damage E – Injury E – Fatigue	Personnel on board	3	C	C3	1. Consider route deviations to avoid or minimise adverse weather encountered (S) 2. Consider identification of ports of refuge or shelter areas (S) 3. Organise battening down of complete vessel (En) 4. Check sea fastening of equipment and reinforce if required (En) 5. Follow adverse weather procedure (A) 6. Obtain and Monitor weather forecasts (A) 7. Brief crew about adverse weather and appropriate behaviour (A) 8. Essential personnel in full awareness of reduced capabilities (A)	2	C	C2

Generic Risk Assessment

Title/ Description		Heavy (Adverse) Weather Encounter			FS-01-IMS13-001 - Bridge Procedures		Life Saving Rule	GRA. No	FS-01-IMS03-001-B-004
Reference Source	ICS Bridge procedures guide	IMS Procedure			FS-01-IMS13-001 - Bridge Procedures		Line of Fire		
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
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						9. Restriction on use of dedicated spaces such as Gym, warning sign posted. (A) 10. All personnel involved to comply with cultural awareness and no harassment policy (A) 11. Be aware of crew capabilities, limitations and other personal characteristics of each crewmember related to bad weather navigation, and if possible, arrange work on board accordingly (A) 12. If possible, reduce workload before bad weather. Comply with work and rest hours. (A)			
Emergency preparedness for potential emergency situation (including Bad weather, poor visibility, insufficient	H – Fire Emergencies H – Health Emergencies H – Nautical Emergencies H – Environmental Emergencies H – Equipment Failure Emergencies	Personnel on board	4	C	C4	Control measures 1 to 12, as applicable 13. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A)	4	A	A4

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Reference Source	ICS Bridge procedures guide	IMS Procedure		FS-01-IMS13-001 - Bridge Procedures		Life Saving Rule		Line of Fire	
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk		Risk Rating
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
manning, capsizing, sinking)	H – Search and Rescue - SAR - Emergencies E – Death E – Injury/illness of personnel E – Damage to vessel E – Loss of vessel E – Damage to 3rd party property					14. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 15. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 16. Emergency contacts available (A) 17. Emergency equipment is available and maintained as per PMS (A)			
Heavy (adverse) weather navigation	H – Ingress of water H – Loss of stability H – Loss of Power H – Loss of propulsion H – Unwell feeling, restricted capabilities of personnel H – Dehydration H – Insufficient meals prepared/ consumed H – Loss of equipment to sea E – Fatality E – Loose parts, body impact and injury.	Personnel on board	4	C	C4	Control measures 1 to 12, as applicable 18. Galley equipment secured and food preparation limited to what is possible considering ship movement. (S) 19. Outdoors/ exposed areas, restricted as per Master orders. (I) 20. Vessel speed and course to be adjusted to limit weather effects (En) 21. Backup power supply available and tested (En)	4	A	A4

Generic Risk Assessment

Title/ Description		Heavy (Adverse) Weather Encounter		FS-01-IMS13-001 - Bridge Procedures		Life Saving Rule	GRA. No	FS-01-IMS03-001-B-004	
Reference Source	ICS Bridge procedures guide	IMS Procedure		FS-01-IMS13-001 - Bridge Procedures		Line of Fire			
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
	E – Pinch points. E – Slips, trips & falls E – Spills / oil pollution E – Vessel equipment damage E – Financial loss					22. Anti-slip painting on deck (as applicable). (En) 23. Observation camera's with monitors on Bridge (if equipped). (En) 24. Onboard Medical facilities on standby, seasickness' pills distribution, as required (A) 25. Monitor secured equipment and improve lashings if required (A)			
Heavy (adverse) weather in port	H – Ingress of water H – Loss of stability H – Loss of Power H – Unwell feeling, restricted capabilities of personnel H –Dehydration H – Insufficient meals prepared/ consumed H – Damage to mooring line/ equipment H – Vessel contact with quay/berth	Personnel on board	4	C	C4	Control measures 1 to 12, as applicable 26. Consider shifting vessel to anchorage or shelter area (S) 27. Galley equipment secured and food preparation limited to what is possible considering ship movement. (S) 28. Outdoors/ exposed areas, restricted as per Master orders. (I) 29. Backup power supply available and tested (En)	4	A	A4

Generic Risk Assessment

Heavy (Adverse) Weather Encounter				FS-01-IMS13-001 - Bridge Procedures		Life Saving Rule	GRA. No	FS-01-IMS03-001-B-004
Reference Source	ICS Bridge procedures guide		IMS Procedure		Line of Fire			
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
	E – Fatality E- Loose parts, body impact and injury. E – Pinch points. E – Slips, trips & falls E – Spills / oil pollution E – Vessel equipment damage E – Financial loss E – Loss of reputation					30. Anti-slip painting on deck (as applicable). (En) 31. Additional mooring lines, fendering (En) 32. Consult Port Master instructions or advices (A) 33. Onboard Medical facilities on standby, seasickness' pills distribution, as required (A) 34. Monitor secured equipment and improve lashings if required (A)		
Assessor's Name(s)	Reviewers Name(s)						Time	08:00
Miguel Ganuza, Melvin Fernandes (Initial 2021)	Muru Palaney, Tommaso Perelli (Initial 2021)				Date		1 September 2022	
Marino Buselic, Vijay Mundath (Review 2022)	Tommaso Perelli, Muru Palaney (Review 2022)				Location		FS	
					Approval		Rev. No	01
					Next Review date		Date	1 September 2022

Generic Risk Assessment

Title/ Description	Control of Substances Hazardous to Health (COSHH)				GRA. No	FS-01-IMS03-001-B-005			
Reference Source	Code of Safe Working Practices for Merchant Seafarers	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work - Control of Substances Hazardous to Health (COSHH)		Life Saving Rule	Line of Fire			
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk				
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En= Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Use of Substances Hazardous to Health	H – Contact with substance H- Incorrect use of substance H – Adverse release of substance H – Untrained personnel H- Poor mental health of crew involved H- Unfavourable work environment (stress, victimisation, etc.) E – Injury E – Fire E – Explosion E – Environmental Spill E - Contamination	Personnel on board	4	D	D4	1. Any chemical substance without a label shall not be used (E). 2. Use only least hazardous substances (S). 3. Adequate first aid and fire-fighting equipment available and close to the worksite (En). 4. Close scuppers if applicable (En) 5. All substances supplied on board shall have SDS available to users in the vessel's working language (A). 6. COSHH assessment for all substances on board (A). 7. COSHH procedure to be adhered to (A).	3	B	B3

Generic Risk Assessment

Control of Substances Hazardous to Health (COSHH)					GRA. No	FS-01-IMS03-001-B-005
Title/ Description	Code of Safe Working Practices for Merchant Seafarers		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work – Control of Substances Hazardous to Health (COSHH)	Life Saving Rule	Line of Fire
Tasks	A: Hazard		B: Initial Risk		C: Controls	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	D: Residual Risk
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.
						<p>8. All personnel involved to comply with cultural awareness and no harassment policy (A)</p> <p>9. All crew involved shall be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A)</p> <p>10. Plan work schedule and regular breaks, comply with work and rest hours (A)</p> <p>11. Every crew member has the right to refuse to work with Substances Hazardous to Health, comply with speak up policy (A)</p> <p>12. Use, handle and store substances as described in SDS and COSHH assessment (A).</p> <p>13. Ensure compatibility when multiple substances are used (A)</p>

Generic Risk Assessment

Control of Substances Hazardous to Health (COSHH)					GRA. No	FS-01-IMS03-001-B-005
Title/ Description	Control of Substances Hazardous to Health (COSHH)				Life Saving Rule	Line of Fire
Reference Source	Code of Safe Working Practices for Merchant Seafarers	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work – Control of Substances Hazardous to Health (COSHH)			
Tasks	A: Hazard		B: Initial Risk		C: Controls	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	D: Residual Risk
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
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					14. Follow strictly the smoking regulations on board (A). 15. No smoking, eating and drinking while using hazardous substances (A). 16. Spill containment kit available and close to worksite (A). 17. Chemical waste disposal controlled (A). 18. IMDG Code available onboard, as required when carrying dangerous goods in bulk (A). 19. Provide proper training in use of substances, SDS and COSHH assessment, including wearing and removing PPE (A). 20. When finishing using the hazardous substances clean hand and PPE used (A). 21. Provide proper supervision during the work (A).	Classify risk rating from matrix for each hazard. (high, medium or low)

Generic Risk Assessment

Control of Substances Hazardous to Health (COSHH)					GRA. No		FS-01-IMS03-001-B-005
Title/ Description	Control of Substances Hazardous to Health (COSHH)				Life Saving Rule		Line of Fire
Reference Source	Code of Safe Working Practices for Merchant Seafarers	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work – Control of Substances Hazardous to Health (COSHH)				
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative PPE=Personal Protective Equipment All controls must be valid in that they reduce severity, likelihood or both.	Risk Rating
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Emergency preparedness for potential emergency situation (Fire, Contaminations, burns, poisoning, skin irritations, eye irritations)	H – Fire Emergencies H – Health Emergencies H – Environmental Emergencies H- Incorrect use of substance H – Untrained personnel E – Death E - Injury/illness of personnel E – Damage to vessel E – Damage to 3rd party property	Personnel on board	4	C	C4	22. Familiarization with use of eye wash station (A) 23. 'Stop the Job' Policy (A). 24. Use SLAM before the work starts (A). 25. Use of PPE as per PPE Matrix and as stated on the SDS (PPE). 26. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A) 27. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 28. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 29. Emergency equipment is available and maintained as per PMS (A)	A4

Control of Substances Hazardous to Health (COSHH)				GRA. No	FS-01-IMS03-001-B-005	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work - Control of Substances Hazardous to Health (COSHH)	Line of Fire	
Reference Source				Life Saving Rule		
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk	Risk Rating
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Storage of Substances Hazardous to Health	H – Incorrect substance storage H – Adverse release of substance H – Contact with substance E – Injury E – Fire E – Explosion E – Environmental Spill	Personnel on board	4	C	C4	B3
				30. Following storage requirements and segregate incompatible substances as required as per procedures and SDS (I). 31. Product shall be put in quarantine in case no SDS available (I). 32. Designated COSHH locker available onboard, well-lit and ventilated (En). 33. Storage facility to be provided and maintained with suitable fire detection and suppression system (En). 34. Restrict the access to the substance to authorised personnel only (A). 35. If signs of leakage are present effort to be made to repackage the container (A). 36. Storage space to be regularly inspected (A).	From matrix, identify consequence with controls in place for each hazard. (1-5) From matrix, identify likelihood with controls in place for each hazard. (A-E)	From matrix, identify consequence with controls in place for each hazard. (1-5) From matrix, identify likelihood with controls in place for each hazard. (A-E)

Generic Risk Assessment

Control of Substances Hazardous to Health (COSHH)					GRA. No:	FS-01-IMS03-001-B-005			
Title/ Description	Code of Safe Working Practices for Merchant Seafarers	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work – Control of Substances Hazardous to Health (COSHH)		Life Saving Rule	Line of Fire			
A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk			
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						37. PPE as per PPE matrix available at the storage location (PPE).			
Assessor's Name(s)		Reviewers Name(s)		Date	Time				
Iris de Vos (Initial 2021)		Muru Palaney, Tommaso Perelli (Initial 2021)		1 September 2022	08:00				
Marino Buselic, Vijay Mundath (Review 2022)		Tommaso Perelli, Muru Palaney (Review 2022)		FS	00				
				Approval	Rev. No				
				Next Review date	Date				



Generic Risk Assessment

Berthing / Unberthing, Deck Mooring Lines Handling							GRA. No	FS-01-IMS03-001-B-006	
Title/ Description	Reference Source	ICS Bridge procedures guide	IMS Procedure	FS-01-IMS14-001 Deck Procedure	Life Saving Rule	Line of Fire			
Tasks	A: Hazard	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	C: Controls	D: Residual Risk		
	Hazard Description and Effect					Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity From matrix, identify consequence with controls in place for each hazard. (1-5)	Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A-E)	Risk Rating Classify risk rating from matrix for each hazard. (high, medium or low)
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Berthing / Unberthing Mooring- Preparations	H- Misunderstanding procedures. H – Communication barrier H – Improper planning H- Slips and Trips H: Poor mental health of crew involved H: Unfavorable work environment (stress, victimization, etc.) H- Fatigue E – Injury/illness of personnel E – equipment damage	Personnel involved in the work	3	C	C3	1. Mooring lines laid out to prevent entanglement and contact with obstructions (I) 2. Use certified and maintained equipment as per PMS (En) 3. Establish proper communications between forward, aft stations and bridge. If hand-held VHF are used, ensure backup batteries are charged and readily available. If applicable, other back up communications to be made ready (En) 4. Prime and test hydraulic lines and winches, especially in cold weather (En) 5. Emergency stops in good condition and tested (En).	2	B	B2

Title/ Description					Berthing / Unberthing, Deck Mooring Lines Handling		GRA. No	FS-01-IMS03-001-B-006	
Reference Source		ICS Bridge procedures guide		IMS Procedure		FS-01-IMS14-001 Deck Procedure		Life Saving Rule	Line of Fire
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
		Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
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						6. Toolbox meeting to instruct and discuss task steps and procedure requirements (A) 7. Form appropriate mooring teams with adequate combination of competencies and experience (A) 8. All members of mooring team to be fit for work(A) 9. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A) 10. All personnel involved to comply with cultural awareness and no harassment policy (A) 11. Plan work schedule and regular breaks, comply with work and rest hours (A) 12. Comply with speak up policy (A) 13. Inspect mooring station (A) 14. Inspect mooring ropes and equipment in good order and meet requirements (A)			

Berthing / Unberthing, Deck Mooring Lines Handling							GRA. No	FS-01-IMS03-001-B-006
Title/ Description		Reference Source		IMS Procedure		FS-01-IMS14-001 Deck Procedure	Life Saving Rule	
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1 5)	From matrix, identify likelihood with no controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
						15. Anchor ready for emergency release (A) 16. Provide proper supervision during the work (A) 17. Consider weather forecast for the planned duration of the operation and determine if safe to carry on with operations (A) 18. Berthing plan and mooring configuration discussed with pilot, shore gang (A) 19. All involved to use proper PPE in accordance with PPE matrix (PPE) 20. Use of PFD and lifeline, as required (PPE) 21. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A 22. Adhere to FS-01-IMS17-001 23. Crew to be trained to respond to emergency by participating in		
Emergency preparedness for potential emergency situation (Mooring Equipment failure, Blackout, Collision, pollution, etc.)	H-Mooring equipment failure H- Slips, trips & falls H-Damaged/ parting of mooring line E - Spills / oil pollution E-Death E – Injury E- Damage to 3 rd party property	Personnel involved in the work	4	C	C4		4	A

Generic Risk Assessment

Berthing / Unberthing, Deck Mooring Lines Handling					GRA. No	FS-01-IMS03-001-B-006			
Title/ Description	Reference Source	ICS Bridge procedures guide	IMS Procedure	FS-01-IMS14-001 Deck Procedure	Life Saving Rule	Line of Fire			
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls	D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1 5)	From matrix, identify likelihood with no controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard (high, medium or low)
Berthing / Unberthing Mooring-Operations	H- Brake Failure H- Hydraulic failure. H- Pinch points H- Slips, trips & falls H- Unfamiliar crew H- Damaged/ parting mooring line E- Loose parts, body impact and injury. E- Spills / oil pollution E- Fatality E-vessel equipment damage	Personnel involved in the work	4	C	C4	drills as per drill matrix and planned jobs (A) 24. Emergency equipment is available and maintained as per PMS (A) Control measures 1 to 20 as applicable. 25. Snap-back zones identified (I) 26. Rotational parts covered. (I) 27. Area out of limits to personnel not involved in operations. (I) 28. Stoppers in use to be of the same material as the lines. (En). 29. CCTV camera's with monitors on Bridge (if equipped). (En) 30. Check that mooring lines are appropriately tensioned (En) 31. Anti-slip painting on deck. (En) 32. Apply appropriate tension on mooring lines (En) 33. Use SLAM before starting the operations. (A). 34. Mooring lines paid out as per Master's orders (A).	3	B	B3

Generic Risk Assessment

Berthing / Unberthing, Deck Mooring Lines Handling							GRA. No	FS-01-IMS03-001-B-006	
Reference Source	ICS Bridge procedures guide		IMS Procedure		FS-01-IMS14-001 Deck Procedure		Life Saving Rule		
Tasks	A: Hazard		B: Initial Risk			C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.			
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1 5)	From matrix, identify likelihood with no controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)				
Securing of mooring station after berthing	H- Pinch points H- Slips, trips & falls H- Unfamiliar crew H- Damaged/ parting mooring line E- Loose parts, body impact and injury. E- Fatality E- Vessel equipment damage	Personnel involved in the work	4	C	C4	35. Handle mooring lines correctly without placing yourself or team members in danger (A).			
						36. Always maintain operational awareness and focus on the task (A).			
						37. Rat guards in place for each mooring line (En)			
						38. Ensure winch breaks are fast and winch de-clutched (En)			
						39. Switch off all hydraulics after completion (En)			
Securing of mooring station after unberthing	H- Pinch points H- Slips, trips & falls H- Unfamiliar crew E- Injury. E- Vessel equipment damage	Personnel involved in the work	2	C	C2	40. Proper housekeeping of mooring stations are carried out (A)			
						41. Anchor secured after arrival (A)			
						42. Switch off all hydraulics after completion (En)			
						43. Check that mooring lines are secured for sea voyage, (A)			
						44. Proper housekeeping of mooring stations are carried out (A)			
45. Ensure anchor is secured for sea voyage (A)									
						3			
						B			
						B3			
						2			
						B			
						B2			

Generic Risk Assessment

Berthing / Unberthing, Deck Mooring Lines Handling					GRA. No	FS-01-IMS03-001-B-006	
Title/ Description		Reference Source		IMS Procedure	FS-01-IMS14-001 Deck Procedure	Life Saving Rule	
A: Hazard		B: Initial Risk		C: Controls			
Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	D: Residual Risk		
Separate the job into individual tasks and record in sequence. Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	From matrix, identify consequence with controls in place for each hazard. (1-5) From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Assessor's Name(s)		Reviewers Name(s)		Date	Time		
Miguel Ganuza, Melvin Fernandes (Initial 2021)		Muru Palaney, Tommaso Perelli (Initial 2021)		1 Sept 2022	08:00		
Marino Buselic, Vijay Mundath (Review 2022)		Tommaso Perelli, Muru Palaney (Review 2022)		FS	00		
				Approval	Rev. No	Date	
				Next Review date		1 September 2022	



Generic Risk Assessment

Power Tools - General Operations with Hand and Power Tools					GRA. No st	FS-01-IMS03-001-B-007
Title/Description	IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	
Reference Source	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems		IMS Procedure		Line of Fire	
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix for each hazard. (high, medium or low)
General preparation and equipment selection for working with hand and power tools	H – use of defective equipment H – unfamiliar with equipment H – inappropriate equipment selected for job H- inadequate housekeeping/storage of tool H Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) H - Fatigue	Personnel working with tools	3	C	C3	B2
					1. Remove from service if broken, refer to Lock out / tag out procedure (E) 2. Comply with manual handling limits, all equipment and work-related articles (tools, materials etc) shall not exceed an individual's capacity to lift and carry (E) 3. Emergency stops where fitted are identified and easily accessible by the operator. (E) 4. Use bench support power tools where possible, instead of hand held (S)	2 B

Generic Risk Assessment

Power Tools - General Operations with Hand and Power Tools						GRA. No ⁵	FS-01-IMS03-001-B-007
Title/ Description	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire	
Reference Source							
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative Controls PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5) From matrix, identify likelihood with controls in place for each hazard. (A-E)	
	E – equipment damage E – inadequate work output E – Injury / Illness					Classify risk rating from matrix for each hazard. (high, medium or low)	

Generic Risk Assessment

Power Tools - General Operations with Hand and Power Tools					GRA. No	FS-01-IMS03-001-B-007			
Title/ Description	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule				
Reference Source					Line of Fire				
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk				
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
						10. Plan work schedule and regular breaks, comply with work and rest hours (A) 11. Comply with speak up policy (A) 12. Use only certified and maintained tools (A) 13. Use electrical tools tagged for PAT (A) 14. Follow procedure Hand and power tools and portable electronic devices (A) 15. Check on safety and good working order before use. Check expiry dates – if applicable (A) 16. Monthly safety inspection including hand and power tools (A) 17. Strictly follow the manufacturers' instructions (A)			

Generic Risk Assessment

Power Tools - General Operations with Hand and Power Tools						GRA. No.	FS-01-IMS03-001-B-007	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems			IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire	
Tasks	A: Hazard		Personnel at Risk	B: Initial Risk		C: Controls	D: Residual Risk	
	Hazard Description and Effect			Potential Severity	Likelihood of Occurrence	Risk Rating	Potential Severity	Likelihood of Occurrence
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
						18. Keep all safety devices and guards fully operational (A) 19. Always attach safely tools when working overhead (A) 20. 'Stop the Job' Policy (A) 21. Use SLAM before starting the job (A) 22. HSSE observation card (A) 23. Operator trained or familiar in the use of equipment. (A) 24. Toolbox talk, where required (A) 25. Tools and associated accessories inspected before use and on completion of work. (A) 26. If work is carried out with contractors provided tools, equipment assurance procedure to be followed (A) 27. Use appropriate PPE as per PPE Matrix (PPE)		

Generic Risk Assessment

Power Tools - General Operations with Hand and Power Tools						GRA. No	FS-01-IMS03-001-B-007	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		Line of Fire
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk	Potential Severity	Likelihood of Occurrence	Risk Rating
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating			
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Emergency preparedness for potential emergency situation (Equipment failure, Blackout, Fire, electrical shock, Injury, etc.)	H – Equipment failure H – Damaged tools H – Crew incompetent for task E - Injury E – Death E – Damage to vessel E – Damage to 3 rd party property E – Fire E – Blackout	Operators, Personnel in the area	4	C	C4	4	A	A4
Preparation for working with portable power tools: Noise and Vibration	H – Noise H – Vibration E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration	Operators, Personnel in the area	3	C	C3	2	B	B2

Generic Risk Assessment

Title/ Description		Power Tools - General Operations with Hand and Power Tools					GRA. No	FS-01-IMS03-001-B-007	
Reference Source	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire				
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
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	syndrome), white finger, etc.					individual exposure to noise (and vibration). (A) 35. Maximum trigger times of tools to be known in line with Noise and Vibration procedure. (A) 36. Supervisors to monitor vibration exposure using the calculator belonging to and in line with Noise and Vibration procedure (A) 37. Provision of training/ awareness to employees. (A) 38. Planning of tasks including suitable breaks from noise/vibration exposure (A) 39. Specific PPE is supplied and shall be used where appropriate. (PPE)			
Work with hand and power tools that have rotating	H – Tools with inadequate guarding/entanglement	Personnel working with tools	4	C	C4	Control measures 1 to 27 as applicable	3	B	B3

Generic Risk Assessment

Power Tools - General Operations with Hand and Power Tools					GRA. No.	FS-01-IMS03-001-B-007
Title/ Description	IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	
Reference Source	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems		IMS Procedure		Line of Fire	
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix for each hazard. (high, medium or low)
and / or moving parts	with rotating or moving parts of tool H - Incorrect use or selection of tools or attachments E – Injuries; Bruising, Cuts, abrasions, Fracture, Amputation				40. Remove all loose clothing to prevent entanglement (E) 41. Remove all accessories that could get entangled (E)	
Work with portable pneumatic, hydraulic, and electric power tools.	H – Forces (electricity, pressure, mechanical, etc.) H- Electrical Shock E – Injuries; Burns; Muscle pain; Electric shock; Fatality.	Personnel in the area	4	C	C4	B3

Generic Risk Assessment

Power Tools - General Operations with Hand and Power Tools					GRA. No.	FS-01-IMS03-001-B-007
Reference Source	Code of Safe Working Practices for Merchant Seafarers: Chapter 18 – Provision, care and use of work equipment Chapter 20 – Work on Machinery and Power systems		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	
					Line of Fire	
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix for each hazard. (high, medium or low)
Assessor's Name(s)	Reviewers Name(s)		Date	Time		
Tommaso Perelli (Initial 2021)	Muru Palaney (Initial 2021)		1 September 2022	08:00		
Marino Buselic, Vijay Mundath (Review 2022)	Tommaso Perelli, Muru Palaney (Review 2022)		FS	01		
			Approval	Date		
			Next Review date	1 September 2022		

Generic Risk Assessment

Hot Works, Welding / Burning / Oxygen Cutting							FS-01-IMS03-001-B-008		
Title/ Description		Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		GRA. No*	
Reference Source						Life Saving Rule		Hot Work	
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
		Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
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	Hot Work – Preparation for work	H: Inadequate job preparation. H: Unaware of the hazards and controls. H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) H: Fatigue E: Unidentified hazards and risks	All persons on board	1	C	C1	1	B	B1
							1. Cold weather, moisture trapped may freeze. Do not thaw equipment with naked flames (E) 2. Assess if hot work can take place in designated space for such work (such as Engine Room Workshop) (I) 3. Inform all persons involved in the work and assign tasks via toolbox meeting (A) 4. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A) 5. All personnel involved to comply with cultural awareness and no harassment policy (A)		

Hot Works, Welding / Burning / Oxygen Cutting								GRA. No ¹		FS-01-IMS03-001-B-008	
Title/ Description		Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		Hot Work	
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk			
Reference Source		Hazard Description and Effect		Personnel at Risk		Potential Severity		Likelihood of Occurrence		Risk Rating	
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.		Name all types of personnel at risk. Remember to include people outside the work party who may be affected.		From matrix, identify consequence with no controls in place for each hazard. (1-5)		From matrix, identify likelihood with no controls in place for each hazard. (A-E)		Classify risk rating from matrix for each hazard. (high, medium or low)	
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Hot Works, Welding / Burning / Oxygen Cutting							GRA. No ⁵	FS-01-IMS03-001-B-008
Title/ Description	Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Hot Work
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A E)		
						Potential Severity From matrix, identify consequence with controls in place for each hazard. (1 5)		
						Risk Rating Classify risk rating from matrix for each hazard. (high, medium or low)		
Hot Work– Equipment selection	H: Equipment E: Poor quality standards of equipment used	All persons on board	4	C	C4	17. 'Stop the Job' known to everybody involved (A) 18. Use SLAM before starting with actual work (A)		
						19. Properly store all cylinders, acetylene and oxygen to be segregated – upright, with protective caps, away from heat, sparks and flames (I) 20. Use PAT tested equipment, maintained as per manufacturer's instructions, PMS and suitable for marine environment (En)		
						21. Use only properly certified and maintained equipment for the task including gas detection equipment (En) 22. Protect equipment form potential mechanical damages during storage and operations – sharp edges, corners, heavy objects, etc (En)		
						23.		
						Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A E)		
						Potential Severity From matrix, identify consequence with controls in place for each hazard. (1 5)		
						Risk Rating Classify risk rating from matrix for each hazard. (high, medium or low)		
						Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A E)		
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Hot Works, Welding / Burning / Oxygen Cutting					GRA. No		FS-01-IMS03-001-B-008				
Title/ Description		Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		Hot Work	
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk			
		Hazard Description and Effect		Personnel at Risk		Potential Severity		Likelihood of Occurrence		Risk Rating	
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.		Name all types of personnel at risk. Remember to include people outside the work party who may be affected.		From matrix, identify consequence with no controls in place for each hazard. (1-5)		From matrix, identify likelihood with no controls in place for each hazard. (A-E)		Classify risk rating from matrix for each hazard. (high, medium or low)	
Hot Work - Competence		H: Inadequate operation standards.		Operators		4		C		C4	
		E: Harm to body									
		E: Fire									
Hot Work – PPE		H: Inadequate selection of PPE.		Operators		3		D		D3	
		H: Inadequate use of PPE									
		E: Harm to body									

Hot Works, Welding / Burning / Oxygen Cutting							GRA. No ⁵	FS-01-IMS03-001-B-008	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers			IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Hot Work	
Tasks	A: Hazard		Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect			Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)				
Hot Work – Area preparation	H: Flammable / combustible materials in work area and surrounding areas H: Loose flammable equipment H: Inadequate housekeeping E: Fire/ Explosion	All persons in area	5	C	C5	32. PPE shall be in good condition, shall fit and the user shall be familiar with its use (PPE) 33. Wet coveralls should be dried prior to re-use to prevent possible electrocution (PPE) 34. Isolation (LOTO) of systems, including fire detection system, as necessary (I) 35. Work area to be swabbed and tested for Cr(VI) prior to starting. If positive, refer to Hexavalent Chromium-6 Cr (VI) GRA (En) 36. Clear / clean the surrounding areas from combustible materials and / or provide sufficient fire barriers (En) 37. Provide adequate illumination (En) 38. Provide sufficient ventilation (En) 39. If Hot Work is performed on stainless steel or chromed steel alloys, assume that Cr(VI) will			

Generic Risk Assessment

Hot Works, Welding / Burning / Oxygen Cutting							GRA. No	FS-01-IMS03-001-B-008				
Title/ Description	Code of Safe Working Practices for Merchant Seafarers			IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Hot Work				
Tasks	A: Hazard		Personnel at Risk	B: Initial Risk		C: Controls			D: Residual Risk			
	Hazard Description and Effect			Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.			Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.		Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. <div>High medium low</div>				From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. <div>High medium low</div>
							develop as chemical reaction, and refer to Hexavalent Chromium-6 Cr(VI) GRA (A) 40. Restrict access (A) 41. Inspect the working area and the surrounding areas. To be done by a competent person(s) only. Do a gas-free test where necessary (A)					
Emergency preparedness for potential emergency situation (Equipment failure, Fire, electrical, shock, Injury, etc.)	H – Area of work not prepared for hot work H- Flammable materials and ignition sources H – Lack of information's E – Fire E – Explosion E – Death E – Injury E – Damage to vessel E – Damage to 3 rd party property		All personnel on board	5	C	C5	42. Prepare firefighting equipment in the area (En) 43. For timber decks: keep the deck covered with water or other fire protection (En) 44. Provide competent fire watch with reliable communication line(s). Consider the use of VHF/UHF radios (En) 45. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A)			5	A	A5

Generic Risk Assessment

Hot Works, Welding / Burning / Oxygen Cutting						GRA. No	FS-01-IMS03-001-B-008			
Title/ Description	Reference Source	Code of Safe Working Practices for Merchant Seafarers	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Hot Work				
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. <div>(high) medium or low</div>			From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. <div>(high) medium or low</div>
Execution of Hot Work operations	H: Equipment (gas cylinders, electric arc welding equipment) E: Explosion, fire, E: Harm to body	Operators	4	D	D4	46. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 47. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 48. Emergency equipment is available and maintained as per PMS (A) 49. Monitor the working area and surrounding areas (A) 50. Periodically re-test for vapours during the work (A) 51. Keep Oxygen cylinders away from oils, greases and flammable gasses and with permanent and prominent "No smoking" signs (I) 52. Use guards as required in line with manufacturer instructions, and check emergency button where fitted (En) 53. Use the equipment properly. Attach regulators only to the correct cylinders for which they		4	B	B4

Hot Works, Welding / Burning / Oxygen Cutting					FS-01-IMS03-001 Health & Safety at Work		GRA. No.	FS-01-IMS03-001-B-008	
Reference Source		Code of Safe Working Practices for Merchant Seafarers		IMS Procedure	Life Saving Rule			Hot Work	
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
		Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5) From matrix, identify likelihood with controls in place for each hazard. (A-E) Classify risk rating from matrix for each hazard (high, medium or low)		
							are designed. Strictly follow the equipment manufacturer's instructions. (En) 54. Handle all gas cylinders with care – do not hit, drop, expose to forces (En) 55. Thoroughly visually inspect / test the equipment before use (A) 56. Use only the proper materials (e.g. welding rods, etc.) fit for purpose to perform the task at hand (A) 57. Test equipment prior to use and use only calibrated unit for testing presence of flammable vapours by competent person (A) 58. Are alternative work methods available? (S) 59. Use of Hand arm vibration calculator or tool specifications to establish safe working period (I) 60. Select appropriate tools and calculate limits to exposure (A)		
Hot work – Tool handling		H: Vibration E: HAVS (Hand Arm Vibration Syndrome)	Operators	3	D	C3	2 B B2		

Hot Works, Welding / Burning / Oxygen Cutting					GRA. No		FS-01-IMS03-001-B-008	
Title/ Description		Code of Safe Working Practices for Merchant Seafarers			FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	
Reference Source		IMS Procedure			Hot Work			
Tasks		A: Hazard			B: Initial Risk		C: Controls	
		Hazard Description and Effect			Personnel at Risk		Risk Rating	
		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.			Name all types of personnel at risk. Remember to include people outside the work party who may be affected.		Likelihood of Occurrence	
					From matrix, identify consequence with no controls in place for each hazard. (1-5)		From matrix, identify likelihood with no controls in place for each hazard. (A-E)	
					From matrix, identify consequence with controls in place for each hazard. (1-5)		From matrix, identify likelihood with controls in place for each hazard. (A-E)	
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							Potential Severity	
							Likelihood of Occurrence	
							Risk Rating	
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Hot Works, Welding / Burning / Oxygen Cutting					FS-01-IMS03-001 Health & Safety at Work		GRA. No ⁵	FS-01-IMS03-001-B-008	
Reference Source		Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		Life Saving Rule			Hot Work
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
		Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
							69. Limit the direct current output to max. 70 V (code of safe working practices 23.6.1 (En)		
Completion of Hot work		H – Hot surfaces	Personnel in the working area, crew	4	C	C4	3	A	A3
		H – Poor housekeeping							
		E – Re-ignition of fire							
		E – Slips and trips							
		E – Injury							
Assessor's Name(s)			Reviewers Name(s)				Date	1 September 2022	08:00
Tommaso Perelli (Initial 2021)			Muru Palaney (Initial 2021)				Location	FS	01
Marino Buselic, Vijay Mundath (Review 2022)			Tommaso Perelli, Muru Palaney (Review 2022)				Approval	Julia Korpak	1 September 2022
							Next Review date	31 August 2023	

Generic Risk Assessment

Power Tools- Grinding / Use of Abrasive Wheels					GRA. No*	FS-01-IMS03-001-B-009		
Title/ Description	Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Line of Fire	
Reference Source	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
Tasks	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1 5)	From matrix, identify likelihood with no controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity	Likelihood of Occurrence	Risk Rating
Grinding – Preparation for work	H: Inadequate job preparation. H: Unaware of the hazards and controls. H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) H: Fatigue H: Inexperienced operator	All persons on board, Operators	2	C	C2	1	B	B1
	E: Unidentified hazards and risks E: Injuries							

Generic Risk Assessment

Power Tools- Grinding / Use of Abrasive Wheels							GRA. No		FS-01-IMS03-001-B-009		
Title/ Description		Code of Safe Working Practices for Merchant Seafarers			IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		
Reference Source		Line of Fire		Line of Fire		Line of Fire		Line of Fire		Line of Fire	
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk		Risk Rating	
Hazard Description and Effect		Personnel at Risk		Potential Severity		Likelihood of Occurrence		Risk Rating		Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	
Separate the job into individual tasks and record in sequence.		Name all types of personnel at risk. Remember to include people outside the work party who may be affected.		From matrix, identify consequence with no controls in place for each hazard. (1-5)		From matrix, identify likelihood with no controls in place for each hazard. (A-E)		Classify risk rating from matrix for each hazard. (high, medium or low)		Classify risk rating from matrix for each hazard. (high, medium or low)	
Emergency preparedness for potential		All persons on board		4		C		C4		A4	
H – Crew incompetent for task		All persons on board		4		C		C4		A4	
H – Crew incompetent for task		All persons on board		4		C		C4		A4	

Power Tools- Grinding / Use of Abrasive Wheels							GRA. No	FS-01-IMS03-001-B-009	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		Line of Fire
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.			
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix for each hazard. (high, medium or low)			
emergency situation (Equipment failure, Blackout, Fire, electrical shock, Injury, etc.)	H: Flammable materials and ignition sources E - Injury E – Death E – Damage to vessel E – Damage to 3rd party property E – Fire E: Explosion, fire, release of forces (compressed gasses, under pressure liquids, etc.) E – Blackout					16. For timber decks: keep the deck covered with water or other fire protection (En) 17. Provide competent fire watch with reliable communication line(s). Consider the use of VHF/UHF radios (En) 18. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A) 19. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 20. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 21. Emergency equipment is available and maintained as per PMS (A) 22. Monitor the working area and surrounding areas (A)			

Power Tools- Grinding / Use of Abrasive Wheels					GRA. No		FS-01-IMS03-001-B-009	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers			IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	
Tasks	A: Hazard	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	C: Controls	D: Residual Risk	Line of Fire
Separate the job into individual tasks and record in sequence.	Hazard Description and Effect Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity From matrix, identify consequence with controls in place for each hazard. (1-5)	Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A-E)
Grinding Equipment selection	H: Equipment					23. Periodically re-test for vapours during the work (A)		
	H -Noise					24. Use of Hand arm vibration calculator or tool specifications to establish safe working period (I)		
	H: Use of Equipment					25. Use equipment only if PAT tested (En)		
	H: Vibration					26. Equipment selected shall be provided with guards as required in line with manufacturer instructions, and check emergency button where fitted (En)	1	B
	E: Explosion, fire, E: Harm to body E: Poor quality standards of equipment used E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc.	All persons on board	1	C	C1	27. Select the lowest vibration tool suitable for the job (En) 28. Grinding wheel suitable for equipment and within expiry date (En) 29. Protect equipment form potential mechanical damages during storage and operations – sharp edges, corners, heavy objects, etc (En)		B1

Generic Risk Assessment

Power Tools- Grinding / Use of Abrasive Wheels				FS-01-IMS03-001 Health & Safety at Work		GRA. No ¹		FS-01-IMS03-001-B-009	
Reference Source		Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		Life Saving Rule		Line of Fire	
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.			
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)				
						30. Thoroughly visually inspect / test the equipment before use (A) 31. Be aware of HAVS symptoms to allow early detection. Discuss hazard and safe working period in toolbox (A) 32. Work share/rotation of task is recommended to reduce individual exposure to noise (and vibration). (A) 33. Use only properly certified and maintained equipment as per manufacturer's instructions, PMS and suitable for marine environment and for the task (A)			
Grinding – PPE	H: Inadequate selection of PPE.	Operators	3	C	C3	34. Avoid loose items (getting caught) (A) 35. Select PPE according to PPE manual and matrix (PPE)			
	36. Prevent wearing clothes made of synthetic fibers under overalls where a risk of ignition is likely (PPE)								
	H: Inadequate use of PPE E: Harm to body					2 B B2			

Generic Risk Assessment

Power Tools- Grinding / Use of Abrasive Wheels						GRA. No.	FS-01-IMS03-001-B-009
Title/ Description	Reference Source	Code of Safe Working Practices for Merchant Seafarers	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule		Line of Fire
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Potential Severity	Likelihood of Occurrence
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A E)
					Classify risk rating from matrix for each hazard. (high, medium or low)		Classify risk rating from matrix for each hazard. (high, medium or low)
					37. PPE shall be in good condition, shall fit and the user shall be familiar with its use (PPE) 38. PPE should be free of grease and oil and other flammable substances (PPE)		
					39. Isolate work area to prevent noise or vibration exposure, as required (I) 40. Clear / clean the surrounding areas from combustible materials (I) 41. Provide sufficient fire barriers around combustible material that cannot be moved away (I) 42. Restrict access (I) 43. Isolation (LOTO) of systems, including fire detection system, as necessary (I) 44. Work area to be swabbed and tested for Cr(VI) prior to starting. If positive, refer to Hexavalent Chromium-6 Cr(VI) GRA (En)	3	B
Grinding – Area preparation	H: Flammable / combustible materials in work area and surrounding areas H: Loose flammable equipment H: Inadequate housekeeping H: Inadequate guards or barriers E: Fire/ Explosion from sparks E: Injuries	All persons in area	5	C	C5		B3

Generic Risk Assessment

Power Tools- Grinding / Use of Abrasive Wheels							GRA. No	FS-01-IMS03-001-B-009	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers			IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Line of Fire	
Tasks	A: Hazard	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	C: Controls	D: Residual Risk		
Separate the job into individual tasks and record in sequence.	Hazard Description and Effect Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity From matrix, identify consequence with controls in place for each hazard. (1-5)	Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A-E)	Risk Rating Classify risk rating from matrix for each hazard (high, medium or low)
Grinding Operations	H: Use of Equipment H: Vibration, Noise E: Explosion, fire, E: Harm to body E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc.	All persons on board	4	C	C4	45. Provide sufficient ventilation (En) 46. Provide adequate illumination (En) 47. Ensure area is cordoned off and guards in place to prevent accidental falls (En) 48. Inspect the working area and the surrounding areas. To be done by a competent person(s) only. Do gas-free test where necessary (A) Control measures 1 to 48, as applicable 49. Use guards as required in line with manufacturer instructions, and check emergency button where fitted (En) 50. Maximum trigger times of tools to be complied with in line with Noise and Vibration procedure. (A) 51. Noise exposure levels to be monitored by site supervisors. (A)	3	B	B3

Generic Risk Assessment

Power Tools- Grinding / Use of Abrasive Wheels					GRA. No ¹	FS-01-IMS03-001-B-009	
Title/ Description	Reference Source	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		Line of Fire
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
Completion of work							
	H – Hot surfaces						
	H – Poor housekeeping	Personnel in the working area, crew	3	C	C3	2	A
	E – Slips and trips E – Injury						
Assessor's Name(s)		Reviewers Name(s)					
Tommaso Perelli (Initial 2021)		Muru Palaney (Initial 2021)					
Marino Buselic, Vijay Mundath (Review 2022)		Tommaso Perelli, Muru Palaney (Review 2022)					

[illegible]

Manual Handling				GRA. No.		FS-01-IMS03-001-B-010	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMISA Chapter 10 – Manual Handling		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire	
Reference Source							
Tasks	A: Hazard		B: Initial Risk		C: Controls	D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	Classify risk rating from matrix for each hazard. (High, medium or low)
						6. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A) 7. All personnel involved to comply with cultural awareness and no harassment policy (A) 8. Plan work schedule and regular breaks, comply with work and rest hours (A) 9. Comply with speak up policy (A) 10. Strictly follow Manual handling Procedure (A) 11. Consider weight and physical ability of the person to manage the load, in any case limit the weight of load to 23 kg or 50 pounds (A) 12. Manual handling training (A)	

Generic Risk Assessment

Manual Handling				GRA. No		FS-01-IMS03-001-B-010		
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMISA Chapter 10 – Manual Handling		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		
Reference Source					Line of Fire			
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity	Likelihood of Occurrence	Risk Rating
	H – Adverse Weather conditions E – Injuries	Personnel involved in the work	3	C	C3	3	B	B3
	H – Inadequate Working area E – Injuries	Personnel involved in the work	3	C	C3	3	A	A3
	H – Incorrect manual handling techniques H – Fatigue	Personnel involved in the work	4	C	C4	3	A	A3

Generic Risk Assessment

Manual Handling			GRA. No ³		FS-01-IMS03-001-B-010				
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMISA Chapter 10 – Manual Handling	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Line of Fire			
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
	H – Multiple manual handling lifts H – Slips, trips & falls H – Dropped load E – Injuries E – Fatality E – Damaged equipment E- Financial loss					'Manual Handling Awareness' training (A) 18. Reduce bending, twisting, reaching movements (A) 19. Use proper manual handling techniques: straight back, correct posture (A) 20. 'Stop the Job' Policy (A) 21. Apply SLAM before starting with the job (A) 22. Consider risk of dropped load and minimise height of fall of the load (A) 23. Wear appropriate PPEs (PPE)			
Emergency preparedness for potential emergency situation (Injury, damage to equipment)	H – Slips, trips & falls H – Drop of cargo which was manual handled E – Injury E – Damage to equipment E – Damage to 3 rd party property	Personnel involved in the work	3	C	C3	24. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A) 25. Adhere to FS-01-IMS17-001 Emergency Response Manual (A)	3	A	A3

Generic Risk Assessment

Manual Handling				GRA. No	FS-01-IMS03-001-B-010
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMSA Chapter 10 – Manual Handling	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
				Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	From matrix, identify consequence with controls in place for each hazard. (1-5) From matrix, identify likelihood with controls in place for each hazard. (A-E)
				26. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 27. Emergency equipment is available and maintained as per PMS (A)	
Assessor's Name(s)		Reviewers Name(s)		Date	1 September 2022
Tommaso Perelli (Initial 2021)		Muru Palaney (Initial 2021)		Location	FS
Marino Buselic, Vijay Mundath (Review 2022)		Tommaso Perelli, Muru Palaney (Review 2022)		Approval	Julia Korpak
				Next Review date	31 August 2023
				Rev. No	01
				Date	1 September 2022

Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation					GRA. No [†]	FS-01-IMS03-001-B-011
Title/ Description	IMS Procedure		Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual	Life Saving Rule Work Authorisation		
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVM/SA 11 - Emergency Preparedness and Contingency Planning					
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	
Lifeboat drill planning	H – Communication failure H – misunderstanding instructions or procedure H – Unfamiliarity with operations H - Launching without authority permission H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) H: Fatigue E – Inadequate execution	Personnel involved	1	C	C1	
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Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation						GRA. No.	FS-01-IMS03-001-B-011		
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMSA 11 - Emergency Preparedness and Contingency Planning	IMS Procedure	FS-01-IMS17-001 Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual	Life Saving Rule	Work Authorisation				
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk					
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Reference Source	Separate the job into individual tasks and record in sequence.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
	E: Injuries E: Poor results due to loss of time					5. All personnel involved to comply with cultural awareness and no harassment policy (A) 6. Plan work schedule and regular breaks, comply with work and rest hours (A) 7. Comply with speak up policy (A) 8. Clear task division (A) 9. Define ways of communication (A) 10. Obtain permission from Port Authorities or Control Room of the installation controlling offshore area (A) 11. Follow ship specific procedure and manufacturer manual (A) 12. Comply with MOPO (A) 13. Ensure lifeboat maintenance is up to date with PMS and manufacturer requirements (A)			

Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation					GRA. No	FS-01-IMS03-001-B-011
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMSA 11 - Emergency Preparedness and Contingency Planning	IMS Procedure	FS-01-IMS17-001 Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual	Life Saving Rule	Work Authorisation	
Reference Source						
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk	
Separate the job into individual tasks and record in sequence.	Hazard Description and Effect Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Personnel at Risk Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	Potential Severity From matrix, identify consequence with no controls in place for each hazard. (1-5)	Likelihood of Occurrence From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Risk Rating Classify risk rating from matrix for each hazard. (high, medium or low)	Risk Rating Classify risk rating from matrix for each hazard. (high, medium or low)
Emergency preparedness for potential emergency situation (Equipment failure, MOB, Capsize of lifeboat, damage to equipment, Loss of lifeboat,etc.)	H – Equipment failure H – Unfamiliar crew E – Loss of lifeboat E – Death E – Injury E – Damage to equipment E – MOB	Personnel involved	4	C	C4	A4
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Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation					GRA. No ³	FS-01-IMS03-001-B-011
Title/ Description	IMS Procedure		Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual	Life Saving Rule	Work Authorisation	
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVMSA 11 - Emergency Preparedness and Contingency Planning					
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
						From matrix, identify consequence with controls in place for each hazard. (1-5)
						From matrix, identify likelihood with controls in place for each hazard. (A-E)
Preparation for launching the lifeboat						Classify risk rating from matrix for each hazard. (high, medium or low)
						From matrix, identify consequence with controls in place for each hazard. (1-5)
						From matrix, identify likelihood with controls in place for each hazard. (A-E)
						Classify risk rating from matrix for each hazard. (high, medium or low)
						From matrix, identify consequence with controls in place for each hazard. (1-5)

Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation					GRA. No	FS-01-IMS03-001-B-011			
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMSA 11 - Emergency Preparedness and Contingency Planning		IMS Procedure	FS-01-IMS17-001 Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual	Life Saving Rule	Work Authorisation			
Reference Source									
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk				
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
						26. Check fuel level and availability of emergency devices (extinguisher, life jackets etc) (A) 27. Inspect and deploy embarkation ladders appropriately, if applicable (A) 28. Consider using Personal Locating Beacon (PPE)			
Launch of the lifeboat	H - Incorrect launch of lifeboat H - Failure to launch due to lack of maintenance/faulty equipment H - Improper conduct of lifeboat crew E - Injury E - Equipment damage	Launch team Lifeboat crew Vessel Lifeboat	5	C	C5	Control measures 1 to 28, as applicable 29. No personnel inside the boat when lowering and hoisting (E) 30. Use embarkation ladder to access the boat when waterborne (S) 31. Release hook only to be used after lifeboat is fully waterborne (off load) (En) 32. On-load release, if equipped, to be tested: (En)	4	A	A4

Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation					GRA. No	FS-01-IMS03-001-B-011			
Title/ Description	IMS Procedure		Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual		Life Saving Rule Work Authorisation				
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVMSA 11 - Emergency Preparedness and Contingency Planning		IMS Procedure		FS-01-IMS17-001 Emergency Response Manual				
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk				
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
						<ul style="list-style-type: none">Either, when the boat suspended on pennants (see manufacturer manual)Or with crew inside the boat and boat lifted off the water max 0.5m 33. 'Stop the Job' Policy (A) 34. Use SLAM before starting the job (A)			
Operations with Lifeboat	H - Untrained/unqualified crew operating the boat H - Sudden changes in weather H - Equipment failure E - Injury E - Collision E - Damage	Lifeboat crew Vessel Lifeboat	4	C	C4	Control measures 1 to 20, as applicable 35. Monitor weather conditions (A) 36. Certified crew to operate lifeboat (A) 37. Monitor traffic in vicinity (A) 38. Establish communication with Officer of the Watch (A)	3	B	B3
Recovery of boat	H - Incorrect recovery of lifeboat	Launch team	5	C	C5	Control measures 1 to 28, as applicable	4	A	A4

Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation					GRA. No	FS-01-IMS03-001-B-011
Title/ Description	Code of Safe Working Practices for Merchant Seafarers OVMSA 11 - Emergency Preparedness and Contingency Planning		IMS Procedure	FS-01-IMS17-001 Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual	Life Saving Rule	Work Authorisation
Reference Source						
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk	Risk Rating
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix for each hazard. (high, medium or low)
	H - Failure to recover the boat due to lack of maintenance/faulty equipment H – Adverse weather developed during drill H - Untrained/unqualified crew operating the boat E - Injury E - Damage	Lifeboat crew Vessel Lifeboat			39. Abort drill and retrieve lifeboat if weather conditions deteriorate (E) 40. Once lifeboat is hooked up, crew to disembark before hoisting back in position (E) 41. Check that the hydrostatic safety pawl has moved to the green area (En) 42. Place back safety pin/devices when lifeboat is in position for recovery (En) 43. Secure the lifeboat when back in position (En) 44. Ensure proper housekeeping is maintained. (A) 45. Monitor weather conditions (A)	
Assessor's Name(s)	Reviewers Name(s)		Date	1 September 2022	Time	08:00

Generic Risk Assessment

Drill-Training - Lifeboat - Launch & Recovery & Operation					GRA. No	FS-01-IMS03-001-B-011	
Title/ Description	IMS Procedure		FS-01-IMS17-001 Emergency Response Manual FS-01-IMS03-001 Health & Safety at Work SOLAS Training Manual	Life Saving Rule Work Authorisation			
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVMSA 11 - Emergency Preparedness and Contingency Planning						
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En= Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity From matrix, identify consequence with controls in place for each hazard. (1-5)	Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A-E)
							Classify risk rating from matrix for each hazard. (high, medium or low)
Thiha, Irfan Afzal (Initial 2021)		Muru Palaney, Tommaso Perelli (Initial 2021)	FS	01			
Marino Buselic, Vijay Mundath (Review 2022)		Julia Korpak	31 August 2023				

Generic Risk Assessment

Title/ Description		Ballasting / De-Ballasting Operations		GRA. No.		FS-01-IMS03-001-B-012
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVMSA 6C Offshore operations - Cargo, bunkering, ballasting and stability OVMSA - Element 10 Environmental and energy management IMO – International Maritime Organisation	IMS Procedure	FS-02-SHP-BWMP-001 – Ballast Water Management Plan	Life Saving Rule		Work Authorisation
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)	Classify risk rating from matrix for each hazard. (High, medium or low)
Ballasting and de-ballasting - Planning	H: Poor preparation H: Incorrect stability calculations H: Poor communication, loss of focus on task. H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) E: Loss of Stability E: Flooding E: Structural damage due to pressurised tank	Personnel on board Vessel	3	C	C3	1. Check ballast tank vents to make sure they are clear for outflow/intake of air while loading/discharging ballast to avoid over pressurizing or creating vacuum in tank that could lead to structural damage (En). 2. Tank level sensors to be available and maintained as per PMS (En) 3. Follow Ballast Water Management Plan (A) 4. Person performing task should be fit for work. Take in account

Generic Risk Assessment

Ballasting / De-Ballasting Operations				GRA. No	FS-01-IMS03-001-B-012				
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVMSA 6C Offshore operations - Cargo, bunkering, ballasting and stability OVMSA - Element 10 Environmental and energy management IMO – International Maritime Organisation		IMS Procedure	FS-02-SHP-BWMP-001 – Ballast Water Management Plan	Life Saving Rule	Work Authorisation			
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk				
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
						crewmember capabilities, limitations, mental health, physical health limitations. (A) 5. All personnel involved to comply with cultural awareness and no harassment policy (A) 6. Plan work schedule and regular breaks, comply with work and rest hours (A) 7. Comply with speak up policy (A) 8. Prepare ballast sequence/plan of vessels current status including any expected or possible changes to this status during the planned duration of the operation (A).			

Generic Risk Assessment

Ballasting / De-Ballasting Operations			GRA. No ⁵		FS-01-IMS03-001-B-012				
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVMISA 6C Offshore operations - Cargo, bunkering, ballasting and stability OVMISA - Element 10 Environmental and energy management IMO – International Maritime Organisation	IMS Procedure	FS-02-SHP-BWMP-001 – Ballast Water Management Plan	Life Saving Rule	Work Authorisation				
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk				
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Emergency preparedness for potential emergency situation (List, Capsize, Structural damage, Pollution, damage to	H – Wrong ballast plan H – Ballast operator mistake E – List E – Capsize E – Death E – Injury E – Pollution	Personnel on board Vessel	4	C	C4	9. Performing Stability calculations with a class approved stability program or stability booklet (A). 10. Personnel involved in ballast operation familiarised with system and work operation (A). 11. Toolbox meeting (A). 12. 'Stop the Job' Policy (A). 13. Use SLAM before starting the job (A). 14. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A) 15. Adhere to FS-01-IMS17-001 Emergency Response Manual (A)	4	A	A4

Generic Risk Assessment

Title/ Description		Ballasting / De-Ballasting Operations					GRA. No	FS-01-IMS03-001-B-012	
Reference Source	Code of Safe Working Practices for Merchant Seafarers		IMS Procedure		FS-02-SHP-BWMP-001 – Ballast Water Management Plan	Life Saving Rule	Work Authorisation		
	OVMSA 6C Offshore operations - Cargo, bunkering, ballasting and stability		OVMSA - Element 10 Environmental and energy management						
IMO – International Maritime Organisation									
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.			
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)	
equipment, Equipment failure, etc.)	E – Damage to equipment E -Damage to 3 rd party property E -Equipment failure					16. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 17. Emergency equipment is available and maintained as per PMS (A)			
Ballasting and de-ballasting - Operations	H: Equipment malfunction H: Incorrect stability calculations H: Poor communication, loss of focus on task E: Loss of Stability E: Flooding E: Structural damage due to pressurised tank	Personnel on board Vessel	5	C	C5	Control measures 1 to 17, as applicable 18. Regularly monitor tank gauges and where possible take physical soundings (En) 19. Follow ballast sequence as per plan (A). 20. Monitor ballast/de-ballast operations throughout the execution, avoid SIMOPS/distractions (A)	4	A A4	

Ballasting / De-Ballasting Operations				GRA. No		FS-01-IMS03-001-B-012	
Reference Source	Code of Safe Working Practices for Merchant Seafarers OVMSA 6C Offshore operations - Cargo, bunkering, ballasting and stability OVMSA - Element 10 Environmental and energy management IMO – International Maritime Organisation		IMS Procedure	FS-02-SHP-BWMP-001 – Ballast Water Management Plan	Life Saving Rule	Work Authorisation	
Tasks	A: Hazard		B: Initial Risk		C: Controls	D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Potential Severity	Likelihood of Occurrence
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
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Generic Risk Assessment

Title/ Description	Ballasting / De-Ballasting Operations						GRA. No	FS-01-IMS03-001-B-012
Reference Source	Code of Safe Working Practices for Merchant Seafarers	OVMISA 6C Offshore operations - Cargo, bunkering, ballasting and stability	OVMISA - Element 10 Environmental and energy management	IMO – International Maritime Organisation	IMS Procedure	FS-02-SHP-BWMP-001 – Ballast Water Management Plan	Life Saving Rule	Work Authorisation
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). <u>Note:</u> Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
						29. Regular tank inspections as per PMS (A)		
Assessor's Name(s)		Reviewers Name(s)						
Iris de Vos (Initial 2021)		Muru Palaney, Tommaso Perelli (Initial 2021)						
Marino Buselic, Vijay Mundath (Review 2022)		Tommaso Perelli, Muru Palaney (Review 2022)						
						Date	1 September 2022	Time
						Location	FS	Rev. No
						Approval	Julia Korpak	Date
						Next Review date	31 August 2023	1 September 2022

Generic Risk Assessment

Maintenance - Lifting Equipment and Accessories						GRA. No.	FS-01-IMS03-001-B-013
Title/ Description	Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist			IMS Procedure	FS-01-IMS12C-001 Lifting Equipment Procedure	Life Saving Rule	Safe Mechanical Lifting
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	
Reference Source	Separate the job into individual tasks and record in sequence.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. <div>(high, medium or low)</div>	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
Assessment and preparation for lifting equipment and accessories maintenance and inspection	H - Misunderstanding of procedures H - Records and certificates not monitored and maintained H - Uncoordinated task or action execution H - Unfamiliarity with the equipment and accessories to be maintained and inspected H – Poor ergonomics considerations Hi: Poor mental health of crew involved Hi: Unfavourable work environment (stress, victimization, etc.) E – Improper task preparation	Crew	2	D	D2	1	B
Follow Lifting Equipment Procedure (A) Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A) All personnel involved to comply with cultural awareness and no harassment policy (A) Plan work schedule and regular breaks, comply with work and rest hours (A) Comply with speak up policy (A) Inspect equipment at appropriate intervals in line with PMS and manufacturer guidance (A) Use of Up-to Date Forms and Checklists as to the latest							
B1							

Generic Risk Assessment

Maintenance - Lifting Equipment and Accessories						GRA. No	FS-01-IMS03-001-B-013
Title/ Description	Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist		IMS Procedure	FS-01-IMS12C-001 Lifting Equipment Procedure	Life Saving Rule	Safe Mechanical Lifting	
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En= Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
E – Use of expired or poorly maintained lifting equipment or accessories							

Generic Risk Assessment

Maintenance - Lifting Equipment and Accessories					GRA. No		FS-01-IMS03-001-B-013	
Title/ Description	Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist			IMS Procedure	FS-01-IMS12C-001 Lifting Equipment Procedure		Life Saving Rule	Safe Mechanical Lifting
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Reference Source	Separate the job into individual tasks and record in sequence.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Risk Rating
								Classify risk rating from matrix for each hazard. (high, medium or low)
Emergency preparedness for potential emergency situation (Slip, trips & falls, Injury, Equipment failure, etc.)	H – Slips, Trips & falls H – Personnel not familiar with task H – Manufacturer instruction not followed E – Death E – Injury E – Damage to equipment	Crew involved	4	C	C4	15. Trainings/Familiarization either on board or ashore to gain and retain full knowledge and skills. (A)	4	A
						16. Apply proper manual handling techniques where task required to handle loads (A)		
						17. Use of PPE appropriate for task and in line with PPE matrix (PPE)		
						18. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A)		
						19. Adhere to FS-01-IMS17-001 Emergency Response Manual (A)		
						20. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)		

Generic Risk Assessment

Maintenance - Lifting Equipment and Accessories							GRA. No	FS-01-IMS03-001-B-013
Title/ Description	Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist			IMS Procedure	FS-01-IMS12C-001 Lifting Equipment Procedure	Life Saving Rule	Safe Mechanical Lifting	
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
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Execution of lifting equipment and accessories maintenance and inspection	H - Improper delegation of work H - Dropped Objects. H - Slip, trips and fall. E - Injury E - damage to property and equipment	Crew	4	C	C4	21. Emergency equipment is available and maintained as per PMS (A)	4	A
			4	C		22. Control measures 1 to 21 as applicable 23. Positioning away from line of fire hazards (I) 24. Any observation found on the crane and other lifting equipment/accessories while completing the inspection must be reported and equipment must be quarantined until is repaired or offloaded (I) 25. Isolate work area around a suspended load and lay down areas during crane lifting test and maintenance (I) 26. In case of maintenance of pressurised or electrically powered lines, ensure LOTO is in		

Generic Risk Assessment

Maintenance - Lifting Equipment and Accessories							GRA. No	FS-01-IMS03-001-B-013
Title/ Description	Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist			IMS Procedure	FS-01-IMS12C-001 Lifting Equipment Procedure	Life Saving Rule	Safe Mechanical Lifting	
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (High, medium or low)
Restore back to operations	H – Poor housekeeping H – Inadequate measures in place before power is restored H – Dropped object	Crew	4	C	C4	26. Designated banksman must be aware of his surroundings and the safety of personnel involved in the task. (A) 27. The Lifting Equipment, Load and Accessories are inspected in line with procedure and manufacturer instructions (A) 28. Responsible supervisor to be the look-out while monitoring and carrying-out the Lifting Maintenance and Inspections. (A) 29. SLAM (A) 30. Stop the Job (A) 31. All items especially movable and falling objects properly arranged and secured. (I) 32. All safety limits and guards are back in operation mode. (En)	4	A A4

Generic Risk Assessment

Maintenance - Lifting Equipment and Accessories					GRA. No ³	FS-01-IMS03-001-B-013
Title/ Description	Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist		IMS Procedure	FS-01-IMS12C-001 Lifting Equipment Procedure	Life Saving Rule	
Reference Source						Safe Mechanical Lifting
Tasks	A: Hazard	B: Initial Risk		C: Controls	D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix for each hazard. (high, medium or low)
H – Lifting equipment and accessories not ready for operations E – Injury E – Equipment damage E – Operations delays						

Generic Risk Assessment

Title/ Description		Maintenance - Painting			FS-01-IMS03-001 Health & Safety at Work		GRA. No	FS-01-IMS03-001-B-014				
Reference Source		Code of Safe working practices		IMS Procedure		Life Saving Rule		Work Authorisation				
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk				
		Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.			Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1 5)	From matrix, identify likelihood with no controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)				From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Preparation for painting - general		H – Communication failure H – Procedure lack of understanding H – Failure to plan the task H – Failure to identify hazards of work area H - Inadequate PPE / PPE not used H: Equipment H -Noise H: Use of Equipment H: Vibration H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) E: HAVS (Hand Arm Vibration Syndrome) E: Poor quality standards of equipment used	Crew	1	C	C1	1. Use of Hand arm vibration calculator or tool specifications to establish safe working period I) 2. Isolate work area to prevent noise or vibration exposure, as required (I) 3. Use guards as required in line with manufacturer instructions, and check emergency button where fitted (En) 4. Select the lowest vibration tool suitable for the job (En) 5. Assess task and complete PTW/TRA, as applicable (A) 6. Use of equipment and materials by competent and/or trained personnel, as required (A) 7. Toolbox talk with all personnel involved. (A)			1	A	A1

Generic Risk Assessment

Maintenance - Painting				FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	GRA. No:	FS-01-IMS03-001-B-014
Title/ Description	Reference Source	Code of Safe working practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	GRA. No:	FS-01-IMS03-001-B-014
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk	Work Authorisation			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
	E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc. E – Improper measures in place					8. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A) 9. All personnel involved to comply with cultural awareness and no harassment policy (A) 10. Comply with work and rest hours (A) 11. Comply with speak up policy (A) 12. Thoroughly visually inspect / test the equipment before use (A) 13. Be aware of HAVS symptoms to allow early detection. Discuss hazard and safe working period in toolbox (A) 14. Maximum trigger times of tools to be known in line with Noise and Vibration procedure. (A) 15. Supervisors to monitor vibration exposure using the calculator belonging to and in line with		

Generic Risk Assessment

Maintenance - Painting				FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	GRA. No ³	FS-01-IMS03-001-B-014
Reference Source	Code of Safe working practices		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Work Authorisation	
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity	Likelihood of Occurrence	Risk Rating
						From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard (high, medium or low)
						Noise and Vibration procedure (A) 16. Noise exposure levels to be monitored by site supervisors. (A) 17. Work share/rotation of task is recommended to reduce individual exposure to noise (and vibration). (A) 18. Planning of tasks including suitable breaks from noise/vibration exposure (A) 19. Monitor possible conflict with SIMOPS (A) 20. Check that weather forecast is suitable for painting operations (A) 21. All PPE must be in good condition. (PPE) 22. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A)		
Emergency preparedness for potential emergency situation	H – Instruction manual not followed H – SDS not followed E - Injury E – Poisoning	Crew on board	4	C	C4	4	A	A4

Generic Risk Assessment

Maintenance - Painting				FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	GRA. No ³	FS-01-IMS03-001-B-014
Reference Source	Code of Safe working practices		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Work Authorisation	
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk			
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity	Likelihood of Occurrence	Risk Rating
(Poisoning, Injury, Pollution, Fire, Damage to equipment, etc.)	E – Damage to equipment E - Pollution E – Fire					From matrix, identify consequence controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard (high, medium or low)
Preparation of painting area	H – Inadequate lighting in place H - Potential source of ignition (especially when painting in enclosed space or indoors) H - Inadequate ventilation (Painting in enclosed space or indoors) H – Falling from height (when painting at height) H – Spill of polluting substances to the environment H – Slips trips and falls E – Injury	Crew	4	C	C4	23. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 24. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 25. Emergency equipment is available and maintained as per PMS (A)	4	A
						26. When painting on deck ensure scuppers are closed (I) 27. Work area to be swabbed and tested for Cr(VI) prior to starting. If positive, refer to Hexavalent Chromium-6 Cr(VI) GRA (En) 28. Existing lights to be maintained in good working condition. (A) 29. Additional lights used if required. (A) 30. Confined space PTW to be used and Confined space procedure to be complied with, if painting in confined spaces. (A)		A4

Generic Risk Assessment

Maintenance - Painting					FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	GRA. No ³	FS-01-IMS03-001-B-014
Reference Source	Code of Safe working practices		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	GRA. No ³	FS-01-IMS03-001-B-014
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative Control PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix, identify likelihood with controls in place for each hazard. (1 5)	From matrix, identify likelihood with controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)
E - Pollution						<p>31. Work at height PTW to be used and work at height procedure to be complied with, if painting at height. (A)</p> <p>32. Adequate ventilation of the space, where necessary additional forced ventilation to be used (A)</p> <p>33. Continuous monitoring of the atmosphere within the confined space (A)</p> <p>34. No smoking or hot work in the vicinity of the area. (A)</p> <p>35. When painting on deck ensure SOPEP equipment is at hand (A)</p> <p>36. Clear work area from obstacles before commencing, good housekeeping (A)</p> <p>37. Check adjacent areas are suitable to allow for painting (A)</p> <p>38. SLAM (A)</p> <p>39. Stop the job (A)</p>		

Generic Risk Assessment

Maintenance - Painting					GRA. No-		FS-01-IMS03-001-B-014	
Title/ Description	Reference Source	Code of Safe working practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule		Work Authorisation	
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk			
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity	Likelihood of Occurrence	Risk Rating
Preparation of paint	H – Wrong chemicals mixed	Crew	4	C	C4	4	A	A4
	H - Splashes and spills							
	E – Injury							
	E – Pollution E – Fire							
Painting operation	H - Contact with skin / eye	Crew	4	C	C4	3	A	A3
	H – Breathing of fumes/poor ventilation							
	H - Vessel's motion (Rolling, pitching etc due to weather)							
	H - Splashes and spills H - Fatigue E – Injury E – Pollution							

Generic Risk Assessment

Maintenance - Painting				FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule		GRA. No.		FS-01-IMS03-001-B-014							
Title/ Description		Reference Source		Code of Safe working practices		IMS Procedure		FS-01-IMS03-001 Health & Safety at Work		Work Authorisation							
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk									
		Hazard Description and Effect		Personnel at Risk		Potential Severity		Likelihood of Occurrence		Risk Rating							
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.		Name all types of personnel at risk. Remember to include people outside the work party who may be affected.		From matrix, identify consequence with no controls in place for each hazard. (1-5)		From matrix, identify likelihood with no controls in place for each hazard. (A-E)		Classify risk rating from matrix for each hazard. (high, medium or low)							
Securing area after painting operations		H - Improper disposal of remaining paint drums / remaining paint H – Poor housekeeping H – spills, splashes H – slips trips and falls P - Pollution E – Injury		Environment		3		C		C3		49. When painting on open deck, ensure adequate protection from environment (A)					
												50. Avoid mixing different types of cleaning materials. (I)					
												51. Clean up of tools and materials to be done on spill containment area, to prevent damage from accidental spill (I)					
												52. Use appropriate cleaning materials in line with the safety data sheet. (A)					
												53. Garbage management plan to be followed. (A)		2		A	
												54. Inspect work area after completion and remove any tools and materials used (A) 55. Adequate training provided to crew to raise awareness for compliance and reduction of waste generation. (A) 56. Proper PPE to be worn (PPE)					

Generic Risk Assessment

Maintenance - Painting				GRA. No.	FS-01-IMS03-001-B-014
Title/Description	Reference Source	Code of Safe working practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Assessor's Name(s)			Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En= Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Reviewers Name(s)			Potential Severity	Likelihood of Occurrence	Risk Rating
Miguel Ganuza, Melvin Fernandes (Initial 2021)			From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Marino Buselic, Vijay Mundath (Review 2022)			From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
Assessor's Name(s)			Date	Time	Risk Rating
Miguel Ganuza, Melvin Fernandes (Initial 2021)			1 September 2022	08:00	Classify risk rating from matrix for each hazard. (high, medium or low)
Marino Buselic, Vijay Mundath (Review 2022)			FS	01	Classify risk rating from matrix for each hazard. (high, medium or low)
Assessor's Name(s)			Approval	Rev. No	Risk Rating
Miguel Ganuza, Melvin Fernandes (Initial 2021)			Julia Korpak	1	Classify risk rating from matrix for each hazard. (high, medium or low)
Marino Buselic, Vijay Mundath (Review 2022)			31 August 2023	1 September 2022	Classify risk rating from matrix for each hazard. (high, medium or low)

Generic Risk Assessment

Title/ Description										Maintenance -Deck – Chipping Including Use of Wire Brush		FS-01-IMS03-001 Health & Safety at Work		GRA. No		FS-01-IMS03-001-B-015			
Reference Source		Code of safe working practices				IMS Procedure		Life Saving Rule		Line of Fire									
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk											
		Hazard Description and Effect		Personnel at Risk		Potential Severity		Likelihood of Occurrence		Risk Rating		Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		Potential Severity		Likelihood of Occurrence		Risk Rating	
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.		Name all types of personnel at risk. Remember to include people outside the work party who may be affected.		From matrix, identify consequence with no controls in place for each hazard. (1 5)		From matrix, identify likelihood with no controls in place for each hazard. (A E)		Classify risk rating from matrix for each hazard. (high, medium or low)				From matrix, identify consequence with controls in place for each hazard. (1-5)		From matrix, identify likelihood with controls in place for each hazard. (A-E)		Classify risk rating from matrix for each hazard. (high, medium or low)	
Task planning and preparation		H – Communication failure H – Procedure lack of understanding H – Failure to plan the task H – Inadequate ergonomics considerations H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) E – Improper measures in place		Crew		1		C		C1		1. TBT with all involved (A) 2. Assess task and complete PTW/TRA, as required (A) 3. Use of equipment by competent and/or trained personnel (A) 4. Monitor possible conflict with SIMOPS (A) 5. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A) 6. All personnel involved to comply with cultural awareness and no harassment policy (A) 7. Plan work schedule and regular breaks, comply with work and rest hours (A) 8. Comply with speak up policy (A)		1		A		A1	

Generic Risk Assessment

Maintenance -Deck – Chipping Including Use of Wire Brush					FS-01-IMS03-001 Health & Safety at Work		GRA. No	FS-01-IMS03-001-B-015
Reference Source	Code of safe working practices	IMS Procedure	Life Saving Rule		Line of Fire			
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk		Risk Rating
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En= Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
	Separate the job into individual tasks and record in sequence.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)			
Emergency preparedness for potential emergency situation (Equipment failure, Fire, Electrical shock, Injury, etc.)	H – Equipment failure H – Damaged tools H – Crew incompetent for task H – Inadequate PPE E - Injury E – Death E – Damage to vessel E – Fire	Crew involved	4	C	C4	9. Verify weather forecast is suitable for the planned task (A) 10. Follow PPE matrix, verify all PPE are in good condition. (PPE) 11. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A) 12. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 13. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 14. Emergency equipment is available and maintained as per PMS (A)		
Tools selection	H - Inadequately maintained tools H – Improper tools used for the job H: Use of Equipment H: Vibration	Crew	2	C	C2	15. If no guards present, then tools not to be used (E) 16. Isolate work area to prevent noise or vibration exposure, as required (I)		
						</		

Maintenance -Deck – Chipping Including Use of Wire Brush					GRA. No		FS-01-IMS03-001-B-015	
Title/ Description	Reference Source	Code of safe working practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule		Line of Fire	
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk	
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Potential Severity	Likelihood of Occurrence	Risk Rating
	E: Harm to body E: HAVS (Hand Arm Vibration Syndrome) E: Poor quality standards of equipment used E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc. E - Injury					From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard (high, medium or low)

Generic Risk Assessment

Maintenance -Deck – Chipping Including Use of Wire Brush					GRA. No ¹	FS-01-IMS03-001-B-015			
Title/ Description	Reference Source	Code of safe working practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire			
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls	D: Residual Risk			
	Hazard Description and Effect	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.		From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard (high, medium or low)
						25. Supervisors to monitor vibration exposure using the calculator belonging to and in line with Noise and Vibration procedure (A) 26. Noise exposure levels to be monitored by site supervisors. (A) 27. Work share/rotation of task is recommended to reduce individual exposure to noise (and vibration). (A) 28. Planning of tasks including suitable breaks from noise/vibration exposure (A) 29. If pressurised tools are used, be aware and ensure appropriate measures are in place to control hazards associated with stored energy (A) 30. Place barriers and containment to prevent debris spreading (I) 31. Work area to be swabbed and tested for Cr(VI) prior to starting.			
Area preparation	H – Improper lighting in place H – Inflammable or hazardous atmosphere	Crew	3	C	C3		3	A	A3

Maintenance -Deck – Chipping Including Use of Wire Brush						GRA. No	FS-01-IMS03-001-B-015
Title/ Description	Reference Source	Code of safe working practices		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire
Tasks	A: Hazard	B: Initial Risk			C: Controls		D: Residual Risk
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1 5)	From matrix, identify likelihood with controls in place for each hazard. (A E)
	H – Failure to identify hazards of work area H – Slips trips and falls H – Debris from chipping contaminating surrounding areas E – Injury E – Equipment, vessel damage E – Environmental impact						
Chipping including use of wire brush operation	H - Vessel's motion (Rolling, pitching etc due to weather) H – Communication failure	Crew	3	C	C3	Control measures 1 to 38, as applicable 39. Monitor weather condition throughout the task, if unfavourable stop task. (E)	2

Maintenance -Deck – Chipping Including Use of Wire Brush					FS-01-IMS03-001 Health & Safety at Work		GRA. No	FS-01-IMS03-001-B-015	
Reference Source	Code of safe working practices		IMS Procedure		Life Saving Rule		Line of Fire		
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls	D: Residual Risk			
	Hazard Description and Effect	Risk Rating	Likelihood of Occurrence	Potential Severity	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	From matrix, identify consequence with no controls in place for each hazard. (1-5)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1 5)	From matrix, identify likelihood with controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard (high, medium or low)
	H – Flying particles and debris H – Fatigue E - Injury E – Equipment damage					40. Equipment used in environment as per manufacturer’s instructions (Ex: Rain, Heat, Humidity etc). (En) 41. Monitor possible conflict with SIMOPS (A) 42. Adequate supervision maintained. (A) 43. Plan work and take regular breaks for resting (A) 44. Secure area, clear of debris (I) 45. Inspect work area after completion and remove any tools and materials used (A) 46. Inspect tools after work and segregate if damaged (A) 47. If area needs to be painted afterwards, refer to painting TRA (A)			
Secure area after chipping including use of wire brush	H – Debris not properly disposed of H – Poor housekeeping H – Slips trips and falls E - Environmental impact E – Injury	Crew	1	C	C1		1	A	A1
Assessor's Name(s)	Reviewers Name(s)	Date	1 September 2022	Time	08:00				
Miguel Ganuza, Melvin Fernandes (Initial 2021)	Muru Palaney, Tommaso Perelli (Initial 2021)	Location	FS	Rev. No	01				
Marino Buselic, Vijay Mundath (Review 2022)	Tommaso Perelli, Muru Palaney (Review 2022)	Approval	Julia Korpak	Date	1 September 2022				

Generic Risk Assessment

Title/ Description	Maintenance -Deck – Chipping Including Use of Wire Brush
Reference Source	F.S-01-JMS03-001 Health & Safety at Work
Tasks	A: HazardB: Initial RiskC: ControlsD: Residual Risk
	Hazard Description and EffectPersonnel at RiskLikelihood of OccurrenceRisk RatingPotential SeverityLine of Fire
Separate the job into individual tasks and record in sequence.	Description all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Additional hazards may be caused by interaction with other work. Name all types of personnel at risk. Remember to include people outside the work party who may be affected. From matrix, identify consequence controls in place for each hazard. (1-5) From matrix, identify likelihood controls in place for each hazard. (A-E) Classify risk rating from matrix for each hazard. High medium or low From matrix, identify consequence controls with controls in place for each hazard. (1-5)
	Potential SeverityOccurrenceRisk Rating(High)medium or low(A E)Next Review date31 August 2023

Generic Risk Assessment

Maintenance - Deck – Cleaning Including Use of Chemicals and High-Pressure Washer					GRA. No#	FS-01-IMS03-001-B-016		
Title/ Description		Code of Safe Working Practices		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Line of Fire
Tasks		A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls	D: Residual Risk	
		Hazard Description and Effect	Risk Rating	Likelihood of Occurrence	Potential Severity	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administrative PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify likelihood with no controls in place for each hazard. (A E)	From matrix, identify consequence with no controls in place for each hazard. (1 5)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
Task general preparation		H – Communication failure H – Procedure lack of understanding H – Failure to plan the task H – Failure to identify hazards of work area H – Unfavourable ergonomics / Repetitive Stress Injury H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) H: Use of Equipment H: Vibration E: Harm to body E: HAVS (Hand Arm Vibration Syndrome) E: Poor quality standards of equipment used	Crew	1	C	C1	1	A
						1. Isolate work area to prevent noise or vibration exposure, as required (I) 2. Use of Hand arm vibration calculator or tool specifications to establish safe working period (I) 3. Select the lowest vibration tool suitable for the job (En) 4. Equipment used as per makers instructions in an ergonomic way. (En) 5. TBT with all involved (A) 6. Assess task and complete PTW/TRA, if necessary (A) 7. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A)		
								A1

Generic Risk Assessment

Maintenance - Deck – Cleaning Including Use of Chemicals and High-Pressure Washer					GRA. No ¹	FS-01-IMS03-001-B-016				
Title/ Description	Reference Source	Code of Safe Working Practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire				
Tasks	A: Hazard	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	C: Controls	D: Residual Risk	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	<p>Hazard Description and Effect</p> <p>Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).</p> <p>Note: Additional hazards may be caused by interaction with other work.</p>	<p>Personnel at Risk</p> <p>Name all types of personnel at risk. Remember to include people outside the work party who may be affected.</p>	<p>Potential Severity</p> <p>From matrix, identify consequence with no controls in place for each hazard. (1-5)</p>	<p>Likelihood of Occurrence</p> <p>From matrix, identify likelihood with no controls in place for each hazard. (A-E)</p>	<p>Risk Rating</p> <p>Classify risk rating from matrix for each hazard. (high, medium or low)</p>	<p>Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows</p> <p>E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.</p>	<p>Potential Severity</p> <p>From matrix, identify consequence with controls in place for each hazard. (1-5)</p>	<p>Likelihood of Occurrence</p> <p>From matrix, identify likelihood with controls in place for each hazard. (A-E)</p>	<p>Risk Rating</p> <p>Classify risk rating from matrix for each hazard. (high, medium or low)</p>	
	<p>E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc.</p> <p>E – Improper measures in place</p>					<p>8. All personnel involved to comply with cultural awareness and no harassment policy (A)</p> <p>9. Plan work schedule and regular breaks, comply with work and rest hours (A)</p> <p>10. Comply with speak up policy (A)</p> <p>11. Be aware of HAVS symptoms to allow early detection. Discuss hazard and safe working period in toolbox (A)</p> <p>12. Maximum trigger times of tools to be known in line with Noise and Vibration procedure. (A)</p> <p>13. Supervisors to monitor vibration exposure using the calculator belonging to and in line with Noise and Vibration procedure (A)</p> <p>14. Noise exposure levels to be monitored by site supervisors. (A)</p> <p>15. Work share/rotation of task is recommended to reduce</p>				

Generic Risk Assessment

Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer					GRA. No ⁵	FS-01-IMS03-001-B-016				
Title/ Description	Code of Safe Working Practices		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Line of Fire			
Tasks	A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		Potential Severity From matrix, identify consequence with controls in place for each hazard. (1-5)	Likelihood of Occurrence From matrix, identify likelihood with controls in place for each hazard. (A-E)	Risk Rating Classify risk rating from matrix for each hazard. (high, medium or low)
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	individual exposure to noise (and vibration). (A) 16. Planning of tasks including suitable breaks from noise/vibration exposure (A) 17. Use of equipment and material by competent and/or trained personnel (A) 18. Job rotated to avoid repetitive stress injury. (A) 19. Monitor possible conflict with SIMOPS (A) 20. Verify weather forecast is favourable for the task (A) 21. Follow PPE matrix (PPE). 22. All PPE must be in good condition. (PPE)				Classify risk rating from matrix for each hazard. (high, medium or low)
Emergency preparedness for potential emergency situation (Contaminations,	H – Health Emergencies H – Environmental Emergencies H- Incorrect use of substance H – Untrained personnel	Crew	4	C	C4	23. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A)		4	A	A4

Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer					GRA. No	FS-01-IMS03-001-B-016			
Title/ Description	Reference Source	Code of Safe Working Practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire			
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls	D: Residual Risk			
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Potential Severity	Likelihood of Occurrence	Risk Rating	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1 5)	From matrix, identify likelihood with controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)	
burns, poisoning, skin irritations, eye irritations, electrical shock, etc.)	E – Death E - Injury/illness of personnel E – Damage to vessel E – Damage to 3rd party property					24. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 25. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 26. Emergency equipment is available and maintained as per PMS (A)			
Area preparation	H – Improper lighting in place H - Inadequate ventilation H – Slips trips and falls H - Harmful chemical reaction E – Injury E – Equipment damage	Crew	2	C	C2	27. Area to be cleared of as much debris as possible prior to commencing work. (E) 28. Secure loose equipment in the area to prevent damage or loss (I) 29. Isolate work area as appropriate to prevent accidental access (I) 30. Adequate ventilation in the space where chemicals are used. (En) 31. Existing lights to be maintained in good working condition. (A) 32. Additional lights used if required. (A)	2	A	A2

Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer						GRA. No	FS-01-IMS03-001-B-016		
Reference Source	Code of Safe Working Practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire				
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)
						33. Monitor weather condition for the planned task. (A) 34. Verify compatibility of chemicals as per SDS with area of application (A)			
Selection of equipment and materials	H - Inadequately maintained equipment H - Use of material inadequate for task H - Safety trips / Guards missing on equipment H - Safety data sheet not consulted H - Improper handling of chemicals E – Injury E – Equipment damage	Crew	3	C	C3	35. Mixing (if any) of chemicals are done in open or well ventilated area. (I) 36. Maintenance of equipment as per manufacturer's instructions. (En) 37. Check all safety guards / trips in place and operational prior use. (En) 38. Select equipment suitable for task and for area of operation (A) 39. Checks as per manufacturer's instructions prior use. (A) 40. Safety data sheets for the product to be consulted prior to use. (A) 41. COSHH assessment in place and reviewed before task has been commenced. (A)	2	B	B2

Maintenance - Deck – Cleaning Including Use of Chemicals and High-Pressure Washer					GRA. No.	FS-01-IMS03-001-B-016
Title/ Description	Reference Source	Code of Safe Working Practices	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule	Line of Fire
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk	Potential Severity	Risk Rating
Separate the job into individual tasks and record in sequence.	<p>Hazard Description and Effect</p> <p>Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).</p> <p>Note: Additional hazards may be caused by interaction with other work.</p>	<p>Personnel at Risk</p> <p>Name all types of personnel at risk. Remember to include people outside the work party who may be affected.</p>	<p>Potential Severity</p> <p>From matrix, identify consequence with no controls in place for each hazard. (1-5)</p>	<p>Likelihood of Occurrence</p> <p>From matrix, identify likelihood with no controls in place for each hazard. (A-E)</p>	<p>Risk Rating</p> <p>Classify risk rating from matrix for each hazard. (high, medium or low)</p>	<p>Risk Rating</p> <p>Classify risk rating from matrix for each hazard. (high, medium or low)</p>
Cleaning including use of chemicals and high-pressure washer operation execution	<p>H - Incorrect operation of high pressure washer</p> <p>H - Vessel's motion (Rolling, pitching etc due to weather)</p> <p>H - Skin / eye contact with flying debris</p> <p>H - Slips trips and falls</p> <p>E - Injury</p> <p>E - Equipment damage</p>	<p>Crew</p>	<p>3</p>	<p>C</p>	<p>3</p>	<p>B3</p>

Generic Risk Assessment

Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer							GRA. No	FS-01-IMS03-001-B-016
Title/ Description	Code of Safe Working Practices		IMS Procedure	FS-01-IMS03-001 Health & Safety at Work		Life Saving Rule	Line of Fire	
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)			
Securing area after cleaning operations	H – Debris not properly disposed of H – Chemical products nor properly disposed of H – Poor housekeeping H – Slips trips and falls	Crew	1	C	C1	52. Secure area, clear of debris (I) 53. Inspect work area after completion and remove any equipment and materials used (A) 54. Inspect equipment after work and segregate if damaged (A) 55. Dispose of chemical products or residues in line with SDS and COSHH (A)		
	E - Environmental impact E – Injury					1	A	A1
Assessor's Name(s)	Reviewers Name(s)						Time	08:00
Miguel Ganuza, Melvin Fernandes (Initial 2021)	Muru Palaney, Tommaso Perelli (Initial 2021)				Date	1 September 2022	Rev. No	01
Marino Buselic, Vijay Mundath (Review 2022)	Tommaso Perelli, Muru Palaney (Review 2022)				Approval	Julia Korpak	Date	1 September 2022
					Next Review date	31 August 2023		

Generic Risk Assessment

Title/ Description			Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging				GRA. No		FS-01-IMS03-001-B-017		
Reference Source		COSWP		IMS Procedure		FS-01-IMS14-001 - Deck Procedures		Life Saving Rule		Line of Fire	
Tasks		A: Hazard		B: Initial Risk		C: Controls		D: Residual Risk			
		Hazard Description and Effect		Personnel at Risk		Potential Severity		Likelihood of Occurrence		Risk Rating	
Separate the job into individual tasks and record in sequence.		Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.		Name all types of personnel at risk. Remember to include people outside the work party who may be affected.		From matrix, identify consequence with no controls in place for each hazard. (1 5)		From matrix, identify likelihood with no controls in place for each hazard. (A E)		Classify risk rating from matrix for each hazard. (high, medium or low)	
Pilot boarding preparation		H – Communication misunderstanding H – Instructions misunderstanding H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) E – Incorrect ladder rigging		Crew		1		C		C1	

Generic Risk Assessment

Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging					GRA. No		FS-01-IMS03-001-B-017		
Reference Source	COSWP	IMS Procedure	FS-01-IMS14-001 - Deck Procedures		Life Saving Rule		Line of Fire		
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1 5)	From matrix, identify likelihood with controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard (high, medium or low)
Emergency preparedness for potential emergency situation (Equipment failure, weather condition, MOB, Capsize of Pilot boat, damage to equipment, etc.)	H – Equipment failure H – Unfamiliar crew H – Lack of Pilot experience H – Weather condition E – MOB E – Injury E – Damage to equipment E – Damage to 3 rd party property	Crew involved	4	C	C4	operation, including review of TRA (A) 7. Check and monitor weather conditions (A) 8. Follow MOPO (A) 9. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A) 10. Adhere to FS-01-IMS17-001 Emergency Response Manual (A) 11. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) 12. Emergency equipment is available and maintained as per PMS (A) 13. Maintain good housekeeping and remove any obstruction around pilot boarding area (E)	4	A	A4
Pilot ladder rigging	H – Slips and trips H – Communication misunderstanding H – Instructions misunderstanding	Crew	4	C	C4		4	A	A4

Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging					GRA. No		FS-01-IMS03-001-B-017				
Reference Source		COSWP		IMS Procedure		FS-01-IMS14-001 - Deck Procedures		Life Saving Rule		Line of Fire	
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk				
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE= Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1 5)	From matrix, identify likelihood with controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard. (high, medium or low)		
	H – Incorrect ladder rigging H – use of damaged equipment H – Weather, sea state E – Fall overboard E – Injury E – Fatality E – equipment damage					14. Only personnel involved in operation to be present in the area (I) 15. Manual handling technique to place ladder (En) 16. Rig the ladder using the correct and approved rigging anchor points (En) 17. Rigging to the agreed height above water line (En) 18. Lifebuoy with line & light in place / MOB Boat ready. (En) 19. Sufficient lighting (En) 20. Personnel at pilot boarding station to have communication means and backup with bridge and test on arrival after TBT (A) 21. Check pilot ladder for damages and defects before rigging (A) 22. Pilot ladder rigging supervised and arrangement confirmed to bridge (A)					

Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging					GRA. No		FS-01-IMS03-001-B-017		
Reference Source	COSWP	IMS Procedure	FS-01-IMS14-001 - Deck Procedures		Life Saving Rule		Line of Fire		
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect		Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Potential Severity	Likelihood of Occurrence	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)		From matrix, identify consequence with controls in place for each hazard. (1 5)	From matrix, identify likelihood with controls in place for each hazard. (A E)	Classify risk rating from matrix for each hazard (high, medium or low)
Pilot transfer operations	H – Slips and trips H – Weather, sea state H – Pilot boat approach in unsafe manner E – Fall overboard E – Injury E – Fatality E – equipment damage, collision	Crew, pilot, pilot boat crew	4	D	D4	23. Check and monitor weather conditions (A) 24. Follow MOPO (A) 25. SLAM (A) 26. Stop the Job (A) 27. Personnel involved to wear inflatable and SOLAS approved work vests/PFD's, safety lines. (PPE) 28. Correct PPEs to be used (PPE) 29. Monitor weather conditions, abort operations if conditions require it (E) 30. Pilot to climb with hands free (I) 31. Luggage to be picked up separately (I) 32. Set agreed speed and heading (En) 33. Create lee way as required in agreement with pilot boat (En) 34. Internal communication about pilot boat approach (A)	4	A	A4

Generic Risk Assessment

Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging				GRA. No		FS-01-IMS03-001-B-017	
Reference Source		IMS Procedure		FS-01-IMS14-001 - Deck Procedures		Life Saving Rule	
Tasks		A: Hazard		B: Initial Risk		C: Controls	
		D: Residual Risk					
Hazard Description and Effect		Personnel at Risk		Potential Severity		Likelihood of Occurrence	
Risk Rating		Risk Rating		Potential Severity		Likelihood of Occurrence	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
Pilot ladder recovery	H – Slips and trips H – incorrect ladder recovery H – Weather, sea state E – Fall overboard E – Injury E – Fatality E – equipment damage	Crew	4	C	C4	4	A
Assessor's Name(s)	Reviewers Name(s)	Date	Time	Location	Rev. No	08:00	
Tommaso Perelli (Initial 2021)	Muru Palaney (Initial 2021)	1 September 2022	FS			01	

Generic Risk Assessment

Title/ Description	Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging						GRA. No	FS-01-IMS03-001-B-017
Reference Source	COSWP	IMS Procedure	FS-01-IMS14-001 - Deck Procedures		Life Saving Rule		Line of Fire	
Tasks	A: Hazard	B: Initial Risk		C: Controls		D: Residual Risk		
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.		
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify likelihood with controls in place for each hazard. (A-E)	Potential Severity	Risk Rating
Martino Buselic, Vijay Mundath (Review 2022)	Tommaso Perelli, Muru Palaney (Review 2022)		Approval		Date	1 September 2022		
			Next Review date					

Generic Risk Assessment

Title/ description		Working Over the Side - Operations and Rescue			GRA. No		FS-01-IMS03-001-B-018
Reference Source		Code of Safe Working Practices for Merchant Seafarers – Ch 17	IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule		Working at Height
Tasks	A: Hazard	B: Initial Risk	C: Controls	D: Residual Risk			
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S= Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	From matrix, identify consequence with controls in place for each hazard. (1-5)	From matrix, identify likelihood with controls in place for each hazard. (A-E)
Work over the side preparation	H – Communication failure H – Procedure lack of understanding H – Failure to plan the task H – Failure to identify hazards of work area H: Poor mental health of crew involved H: Unfavourable work environment (stress, victimization, etc.) E – improper measures in place	Crew	1	C	C1	1	A A1
						1. Consider if task can be executed without work over side (E) 2. Use engineering controls such as fixed platforms with guards, scissor lifts, etc. if applicable (En) 3. Lifebuoy with line & light available for immediate use (En) 4. Use permanent fall arrests and equipment limiting the movement, if applicable (En) 5. Follow working at height and over the side procedure (A) 6. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A)	

Generic Risk Assessment

Working Over the Side - Operations and Rescue					GRA. No	FS-01-IMS03-001-B-018
Title/ description	Code of Safe Working Practices for Merchant Seafarers – Ch 17			IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	Life Saving Rule
Reference Source	Working at Height					
Tasks	A: Hazard	Personnel at Risk	B: Initial Risk	C: Controls	D: Residual Risk	
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	Risk Rating
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Classify risk rating from matrix for each hazard. (high, medium or low)
					7. All personnel involved to comply with cultural awareness and no harassment policy (A) 8. Plan work schedule and regular breaks, comply with work and rest hours (A) 9. Comply with speak up policy (A) 10. Provide proper supervision of the task in line with PTW (A) 11. Allow only trained personnel to work. (A) 12. Use only approved, certified and properly maintained equipment. (A) 13. Inspection of all fall protection staging, platforms, ladders, PPE by competent person prior to job (A) 14. Use of equipment by competent and/or trained personnel (A) 15. Assess task and complete PTW/TRA (A) 16. Create rescue plan, including rescue from height and recovery	

Generic Risk Assessment

Working Over the Side - Operations and Rescue					GRA. No	FS-01-IMS03-001-B-018
Title/ description	Code of Safe Working Practices for Merchant Seafarers – Ch 17			IMS Procedure	FS-01-IMS03-001 Health & Safety at Work	
Reference Source					Life Saving Rule	
Tasks	A: Hazard		Personnel at Risk	B: Initial Risk		C: Controls
	Hazard Description and Effect	Personnel at Risk	Potential Severity	Likelihood of Occurrence	Risk Rating	D: Residual Risk
Separate the job into individual tasks and record in sequence.	Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience). Note: Additional hazards may be caused by interaction with other work.	Name all types of personnel at risk. Remember to include people outside the work party who may be affected.	From matrix, identify consequence with no controls in place for each hazard. (1-5)	From matrix, identify likelihood with no controls in place for each hazard. (A-E)	Classify risk rating from matrix for each hazard. (high, medium or low)	Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows E= Elimination S=Substitution I = Isolation En=Engineering Controls A= Administration PPE=Personal Protective Equipment. All controls must be valid in that they reduce severity, likelihood or both.